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DATE: Wednesday, December 19, 2007

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<input type="checkbox"/>	L90	((set\$ or predetermin\$) same (data near3 character\$) same (second adj3 application))	30
<input type="checkbox"/>	L89	L88 and ((set\$ or predetermin\$) same (data near3 character\$) same (second adj3 application))	0
<input type="checkbox"/>	L88	L28 and L80	66
<input type="checkbox"/>	L87	L80 and L43	8
<input type="checkbox"/>	L86	L57 and L82	0
<input type="checkbox"/>	L85	L82 and L26	0
<input type="checkbox"/>	L84	L83 and (third near3 application)	2
<input type="checkbox"/>	L83	L82 and ((\$source or www or web\$ or html) near2 (cop\$ or past\$))	32
<input type="checkbox"/>	L82	715/769.ccls.	350
<input type="checkbox"/>	L81	L80 and L43	8
<input type="checkbox"/>	L80	L79 or L78 or L77	21162
<input type="checkbox"/>	L79	(709/203,FOR.106,FOR.119)! [CCLS]	8229
<input type="checkbox"/>	L78	(707/100,E17.118,E17.143)! [CCLS]	6257
<input type="checkbox"/>	L77	(715/500,501.1,503,504,513,514,517,520,724,770)! [CCLS]	7533
		<i>DB=USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L76	7,188,073.pn.	1
		<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L75	20020091739 20020099777 20020196293 20030014490 20030020749 20030135565 20030154254 20030212680 20040243677 20040039779 20040109033 20050010871 20050183008	15
		<i>DB=USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L74	(5,202,828 5,563,996 5,625,783 5,855,006 5,734,915 5,760,768 5,778,346 5,838,321 5,884,306 5,898,434 5,940,078 5,970,466 6,065,012 6,278,450 6,310,634 6,429,882 6,433,801 6,686,938 6,694,087 6,735,247 6,826,729 6,924,797 7,032,210 7,165,098 7,184,955).pn.	25
		<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L73	L72 and @pd > 20070627	0
<input type="checkbox"/>	L72	L28 and L57	4
<input type="checkbox"/>	L71	((designat\$ near2 (destination or target or second)) with (pasted or pasting))	17
<input type="checkbox"/>	L70	L57 and ((designat\$ near2 (destination or target or second)) with (pasted or pasting))	0
<input type="checkbox"/>	L69	5,924,099.pn.	1
<input type="checkbox"/>	L68	((reference adj information) near10 (related adj data)) same (copied or pasted)	0
<input type="checkbox"/>	L67	L57 and ((reference adj information) near10 (related adj data)) same (copied or pasted)	0
<input type="checkbox"/>	L66	L60 and past\$2	9
		<i>DB=USPT,PGPB; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L65	('5592618' '5680640' '5889935' '6145066' '6240494' '6681303' '6766430' '6772309' '6889376' '20020152231' '20030212854' '20040049553' '20040133756' '20040143832' '20050010609')! [pn]	15
	L64	('5978016' '6715003' '6788824' '6980232')! [pn]	4

<input type="checkbox"/>		
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<input type="checkbox"/>	L63 L57 and ((source or www or web\$ or html) near2 copied)	15
<input type="checkbox"/>	L62 L60 and ((cop\$3 or past\$2) adj function)	2
<input type="checkbox"/>	L61 L60 and L28	0
<input type="checkbox"/>	L60 ((setting or predetermin\$) near5(propert\$ or character\$ or size\$1 or type\$1 or format\$)) with ((destination or target or second) adj application)	69
<input type="checkbox"/>	L59 L57 and (copy or past\$2) with (source or www or web\$ or html) with ((target or destination) near2 (application))	1
<input type="checkbox"/>	L58 L57 and L12	0
<input type="checkbox"/>	L57 (setting or predetermin\$) with(propert\$ or character\$ or size\$1 or type\$1 or format\$) near4 (data or information) with (destination or target or desire\$1)	2448
	<i>DB=USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L56 (6,735,347 6,944,821).pn.	2
	<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L55 20050015379	1
	<i>DB=USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L54 5,537,628.pn.	1
	<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L53 20010032214	2
<input type="checkbox"/>	L52 L51 and @pd > 20070625	0
<input type="checkbox"/>	L51 20040133493	1
	<i>DB=USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L50 6,704,770.pn.	1
<input type="checkbox"/>	L49 (5,781,192, 6,704,7701).pn.	1
	<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L48 L43 and (data adj reference)	13
	<i>DB=USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L47 L42 and L28	14
<input type="checkbox"/>	L46 L42	1353
	<i>DB=PGPB; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L45 US-20020038368-A1.did.	1
<input type="checkbox"/>	L44 US-20020038368-A1.did.	1
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L43 L42 and ((copy or paste) adj (function\$1 or button\$1 or module\$1))	94
<input type="checkbox"/>	L42 ((obtain\$ or cop\$3 or mov\$) near3 data) with (www or web or html or (word adj processing))	4338
<input type="checkbox"/>	L41 ((obtain\$ or cop\$3 or mov\$) near3 data) same (www or web or html or (word adj processing))	8868
<input type="checkbox"/>	L40 ((cop\$3 or mov\$ or past\$3) near2 data) same (source adj application) same(target adj application)	6
<input type="checkbox"/>	L39 ((cop\$3 or past\$3) near2 data) with (source adj application) with (target adj application)	3
<input type="checkbox"/>	L38 L37 and (cop\$3 or paste\$1).ti.	0
<input type="checkbox"/>	L37 L36 and L28	115
<input type="checkbox"/>	L36 L35 or L34	106891
<input type="checkbox"/>	L35 709/(219,229).ccls.	105473
<input type="checkbox"/>	L34 (715/530).ccls.	1562
	<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	

<input type="checkbox"/>	L33	20040003389 or 20020066073 or 20020078222 or 20020100036 or 20020104080 or 20020120685 or 20020129107 or 20020188941 or 20030005411 or 20030051236 or 20030056207	16
<input type="checkbox"/>	L32	20030121033 or 20030192040	4
<input type="checkbox"/>	L31	(5,627,958 or 5,845,077 or 5,933,498 or 6,052,531 or 6,151,643 or 6,173,316 or 6,199,081 or 6,219,698).pn. US-5895461-\$.DID. OR US-5995756-\$.DID. OR US-0122647-\$.DID. OR US-6272505-\$.DID. OR US-6308171-\$.DID. OR US-6323853-\$.DID. OR US-6347398-\$.DID. OR US-6480860-\$.DID. OR US-6516321-\$.DID. OR US-6687485-\$.DID.	6
<input type="checkbox"/>	L30	\$.DID. OR US-6323853-\$.DID. OR US-6347398-\$.DID. OR US-6480860-\$.DID. OR US-6516321-\$.DID. OR US-6687485-\$.DID. <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>	10
<input type="checkbox"/>	L29	L28 and L24	38
<input type="checkbox"/>	L28	((cop\$ or past\$) near3 data) with application\$1	1487
<input type="checkbox"/>	L27	L26 and (past\$2 near10 document\$1)	1
<input type="checkbox"/>	L26	(cop\$ near2 data) with application\$1	247
<input type="checkbox"/>	L25	L24 and (cop\$ near2 data) with (second application)	0
<input type="checkbox"/>	L24	(cop\$3 with software with past\$)	355
<input type="checkbox"/>	L23	(cop\$ near2 data) with application\$1	247
<input type="checkbox"/>	L22	L21 and (cop\$ near2 data) with (second application)	0
<input type="checkbox"/>	L21	(cop\$3 with software with past\$)	355
		<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L20	L12 and (destination same (note adj taking) or note-taking)	0
<input type="checkbox"/>	L19	L17 and (destination with (note adj taking) or note-taking)	1
<input type="checkbox"/>	L18	L17 adn (destination with (note adj taking) or note-taking)	4024
<input type="checkbox"/>	L17	(source adj data) with (web\$ or html or www)	829
<input type="checkbox"/>	L16	L15 and ((source adj application) with (web\$ or html or www))	0
<input type="checkbox"/>	L15	L14 and (web\$ or html or www)	132
<input type="checkbox"/>	L14	((copy or paste) adj module)	374
<input type="checkbox"/>	L13	L12 and ((copy or paste) adj module)	0
<input type="checkbox"/>	L12	((copy or copied or pasted) adj data) with (web\$ or html or www)	226
		<i>DB=USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L11	7143338.pn.	1
<input type="checkbox"/>	L10	(6,112,216 6,223,191 5,694,610 6,108,668 5,608,625 5,598,518 5,897,650 5,835,919 6,697,999 6,112,214).pn. <i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	10
<input type="checkbox"/>	L9	20010032214 20020049785 <i>DB=USPT; PLUR=YES; OP=OR</i>	3
<input type="checkbox"/>	L8	6,944,821.pn. <i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	1
<input type="checkbox"/>	L7	(5,860,073 5,621,875 5,659,791 6,240,430).pn.	4
<input type="checkbox"/>	L6	20030056179 <i>DB=USPT; PLUR=YES; OP=OR</i>	2
<input type="checkbox"/>	L5	5,537,628.pn.	1
<input type="checkbox"/>	L4	(6,411,311 5,897,650 6,934,740 6,380,956 6,292,842 5,991,520 5,724,532).pn. <i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>	7
<input type="checkbox"/>	L3	20060117271 <i>DB=USPT; PLUR=YES; OP=OR</i>	1

☐ L2 (6,133,915 6,202,060).pn.
☐ L1 6650343.pn.

2

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<input type="checkbox"/>	L7	((cop\$ or past\$) and (reference adj information) and (memory or clipboard) and (second near3 application)).clm.	0
<input type="checkbox"/>	L6	((third near2 application) and (data adj reference adj information) and (second near2 application) and (cop\$ or past\$)).clm.	0
<input type="checkbox"/>	L5	(omit\$ and (data adj reference adj information) and ((amount near2 data) or (data near size) or (data near2 type\$1))).clm.	0
<input type="checkbox"/>	L4	((character\$ near2 data) and ((amount near2 data) or (data near size) or (data near2 type\$1)) and (second near2 applicattion)).clm.	0
<input type="checkbox"/>	L3	((first near2 application) and (web adj browser) and (data adj reference adj information)).clm.	0
<input type="checkbox"/>	L2	((set\$ or configur\$) near3 (second near2 applicattion)) and (character\$ near2 data) and ((cop\$ or past\$) near2 data)).clm.	0
<input type="checkbox"/>	L1	((data adj reference adj information) and (character\$ near2 data) and ((cop\$ or past\$) near2 data)).clm.	0

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» Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

- ☐ 1. **Finding function clones in Web applications**
 Lanubile, F.; Mallardo, T.;
Software Maintenance and Reengineering, 2003. Proceedings. Seventh European Conference on
 26-28 March 2003 Page(s):379 - 386
 Digital Object Identifier 10.1109/CSMR.2003.1192447
AbstractPlus | Full Text: [PDF\(254 KB\)](#) IEEE CNF
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- ☐ 2. **An object-oriented power system graphics package for personal computer environment**
 Li, S.; Shahidehpour, S.M.;
Power Systems, IEEE Transactions on
 Volume 8, Issue 3, Aug. 1993 Page(s):1054 - 1060
 Digital Object Identifier 10.1109/59.260894
AbstractPlus | Full Text: [PDF\(656 KB\)](#) IEEE JNL
Rights and Permissions
- ☐ 3. **A possible approach to the development of robotic multi-agent systems**
 Cossentino, M.; Sabatucci, L.; Chella, A.;
Intelligent Agent Technology, 2003. IAT 2003. IEEE/WIC International Conference on
 13-16 Oct. 2003 Page(s):539 - 544
AbstractPlus | Full Text: [PDF\(256 KB\)](#) IEEE CNF
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- ☐ 4. **A paper-quality monitor using a quartz-crystal tuning-fork tactile sensor**
 Itoh, H.; Nomura, M.; Katakura, N.;
Ultrasonics Symposium, 1998. Proceedings., 1998 IEEE
 Volume 1, 5-8 Oct. 1998 Page(s):559 - 562 vol.1
 Digital Object Identifier 10.1109/ULTSYM.1998.762212
AbstractPlus | Full Text: [PDF\(260 KB\)](#) IEEE CNF
Rights and Permissions
- ☐ 5. **A window-based editor for digital video and audio**
 Vankat Rangan, P.; Vin, H.M.; Chan, K.; Aaberg, I.A.;
System Sciences, 1992. Proceedings of the Twenty-Fifth Hawaii International Conference on
 Volume ii, 7-10 Jan. 1992 Page(s):640 - 648 vol.2
 Digital Object Identifier 10.1109/HICSS.1992.183315
AbstractPlus | Full Text: [PDF\(556 KB\)](#) IEEE CNF

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6. **Integrating data acquisition and mathematics software**
Hanks, J.;
[WESCON/94. 'Idea/Microelectronics'. Conference Record](#)
27-29 Sept. 1994 Page(s):186 - 188
Digital Object Identifier 10.1109/WESCON.1994.403608
[AbstractPlus](#) | Full Text: [PDF\(180 KB\)](#) IEEE CNF
[Rights and Permissions](#)
7. **Breaking the copy/paste cycle: the Stretchable Selection Tool**
Apperley, M.; Fletcher, D.; Rogers, B.;
[User Interface Conference, 2000. AUIC 2000. First Australasian](#)
31 Jan.-3 Feb. 2000 Page(s):3 - 10
Digital Object Identifier 10.1109/AUIC.2000.822057
[AbstractPlus](#) | Full Text: [PDF\(228 KB\)](#) IEEE CNF
[Rights and Permissions](#)
8. **PC DAQ, a Windows based DAQ system**
Hogan, G.E.;
[Real Time Conference, 1999. Santa Fe 1999. 11th IEEE NPSS](#)
14-18 June 1999 Page(s):160
Digital Object Identifier 10.1109/RTCON.1999.842593
[AbstractPlus](#) | Full Text: [PDF\(28 KB\)](#) IEEE CNF
[Rights and Permissions](#)
9. **Interfacing a digital oscilloscope to a personal computer using GPIB**
Chickamenahalli, S.A.; Hall, A.;
[Frontiers in Education Conference, 1997. 27th Annual Conference. 'Teaching and Learning in an](#)
[Change'. Proceedings.](#)
Volume 2, 5-8 Nov. 1997 Page(s):904 vol.2
Digital Object Identifier 10.1109/FIE.1997.636000
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Relevance scale ☐ ☐ ☐ ☐ ☐21 [PROXY: a process-oriented extensible hypertext architecture](#)

Charles J. Kacmar, John J. Leggett

October 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 4

Publisher: ACM Press

Full text available: pdf(1.56 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)22 [Generalized pointing: enabling multiagent interaction](#)

Dan R. Olsen, Daniel Boyarski, Thom Verratti, Matthew Phelps, Jack L. Moffett, Edson L. Lo

January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '98**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(977.85 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)23 [Undo for anyone, anywhere, anytime](#)

James O'Brien, Marc Shapiro

September 2004 **Proceedings of the 11th workshop on ACM SIGOPS European workshop EW11**

Publisher: ACM Press

Full text available: pdf(71.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Computer systems are complex and unforgiving. Users need environments more tolerant of errors, allowing them to correct mistakes and explore alternatives. This is the aim of Joyce. Joyce records application usage across the system in such a way that the semantic relationships between individual operations are preserved. Using this information Joyce enables an exploratory model of undo/redo; the user can navigate, visualize, edit and experiment with the history of the system safe in the knowledge ...

24 [Web engineering: A visual environment for dynamic web application composition](#)

Kimihiro Ito, Yuzuru Tanaka

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia HYPERTEXT '03**

Publisher: ACM Press

Full text available: pdf(1.56 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

HTML-based interface technologies enable end-users to easily use various remote Web applications. However, it is difficult for end-users to compose new integrated tools of both existing Web applications and legacy local applications such as spreadsheets, chart tools and database. In this paper, the authors propose a new framework where end-users can wrap remote Web applications into visual components called *pads*, and functionally combine them together through drag & drop-paste operations. ...

Keywords: hypermedia, intelligentPad, personalization, web application linkage, web application wrapping

25 [Novel navigation: Command strokes with and without preview: using pen gestures on keyboard for command selection](#)

Per Ola Kristensson, Shumin Zhai

April 2007 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '07**

Publisher: ACM Press

Full text available: pdf(217.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a new command selection method that provides an alternative to pull-down menus in pen-based mobile interfaces. Its primary advantage is the ability for users to directly select commands from a very large set without the need to traverse menu hierarchies. The proposed method maps the character strings representing the commands onto continuous pen-traces on a stylus keyboard. The user enters a command by stroking part of its character string. We call this method "command stro ...

Keywords: command, keyboard shortcuts, pen gesture, shorthand

26 The effects of practical business constraints on user interface design



Debra Herschmann

May 1995

Proceedings of the SIGCHI conference on Human factors in computing systems CHI '95

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: [html\(24.62 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

27 Creating a professional development program to support a handheld computing initiative



Kenneth Janz

September 2003

Proceedings of the 31st annual ACM SIGUCCS conference on User services SIGUCCS '03

Publisher: ACM Press

Full text available: [pdf\(260.90 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Indiana State University is providing handheld computers to every faculty member in its School of Education. What started as a small pilot program a year ago has grown into a project that is challenging the way faculty are thinking about technology and its application in the teaching and learning process. In addition, a substantial pool of handheld computers has been created for faculty to use with students in the classroom. Recognizing that a strong professional development program was needed t ...

Keywords: documentation development, faculty development, handheld computing, technology training, training

28 Building user interfaces for database applications: the O2 experience



P. Borras, J. C. Mamou, D. Plateau, B. Poyet, D. Tallot

March 1992 **ACM SIGMOD Record**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: [pdf\(524.81 KB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

29 Course 3: Sketch-based interfaces: techniques and applications: Sketch-based interfaces for interactive computer graphics



Takeo Igarashi

August 2007

ACM SIGGRAPH 2007 courses SIGGRAPH '07

Publisher: ACM Press

Full text available: [pdf\(660.31 KB\)](#) [mov](#)
(99:32 MIN)

Additional Information: [full citation](#), [references](#)

30 ET++—an object oriented application framework in C++



Andre Weinand, Erich Gamma, Rudolf Marty

January 1988

ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '88, Volume 23 Issue 11

Publisher: ACM Press

Full text available: [pdf\(1.40 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

ET++ is an object-oriented application framework implemented in C++ for a UNIX+ environment and a conventional window system. The architecture of ET++ is based on MacApp and integrates a rich collection of user interface building blocks as well as basic data structures to form a homogeneous and extensible system. The paper describes the graphic model and its underlying abstract window system interface, shows composite objects as a substrate for declarative layout specification of com ...

31 3D file formats for graphics projects

Richard P. Simpson, Catherine V. Stringfellow

April 2007

Journal of Computing Sciences in Colleges, Volume 22 Issue 4

Publisher: Consortium for Computing Sciences in Colleges

Full text available: [pdf\(163.52 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Although the standard graphics class is often taught from a theoretical standpoint, a student's education is inevitably enhanced by carefully designed programming projects. Many of the projects found in textbooks are artificial and as a result are not very interesting to serious students of graphics. In an attempt to spice up the projects a number of real world 3D file formats were investigated to determine those that were appropriate for use in undergraduate graphics projects. This paper dis ...

32 Experiences using cooperative interactive storyboard prototyping



Kim Halskov Madsen, Peter H. Aiken

June 1993 **Communications of the ACM**, Volume 36 Issue 6

Publisher: ACM Press

Full text available: pdf(3.23 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: CSCW

33 Demonstrations: SmartPublisher: document creation on pen-based systems via document element reuse



Fabrice Matulic

October 2006 **Proceedings of the 2006 ACM symposium on Document engineering DocEng '06**

Publisher: ACM Press

Full text available: pdf(1.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

SmartPublisher is a powerful, all-in-one application for pen-based devices with which users can quickly and intuitively create new documents by reusing individual image and text elements acquired from analogue and/or digital documents. The application is especially targeted at scanning devices with touch screen operating panels or tablet PCs connected to them (e.g. modern multifunction printers with large touch screen displays), as one of its main purposes is reuse of material obtained from scan ...

Keywords: GUI, document creation and editing, reuse, scanned document

34 Intermedia: The architecture and construction of an object-oriented hypemedia system and applications framework



Norman Meyrowitz

June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '86**, Volume 21 Issue 11

Publisher: ACM Press

Full text available: pdf(1.96 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article presents a case study of the development of the Intermedia system, a large, object-oriented hypermedia system and associated applications development framework providing sophisticated document linkages. First it presents the educational and technological objectives underlying the project. Subsequent sections capture the process of developing the Intermedia product and detail its architecture and construction, concentrating on the areas in which object-oriented technology has ha ...

35 Computer supported learning: The effects of explicit referencing in distance problem solving over shared maps



Mauro Cherubini, Pierre Dillenbourg

November 2007 **Proceedings of the 2007 international ACM conference on Supporting group work GROUP '07**

Publisher: ACM

Full text available: pdf(1.08 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Explicit Referencing is a mechanism for enabling deictic gestures in on-line communication. Little is known about the impact of ER on distance problem solving. In this paper, we report on a study where 120 students (60 pairs) had to solve a problem collaboratively, at a distance, using *chat* tools that differed in the way a user may relate an utterance to the task context. Results indicate that team performance is improved by explicit referencing mechanisms. However, when Explicit Refer ...

Keywords: computer supported cooperative work, computer-mediated communication, context, deictic

36 Static analysis: Finding what's not there: a new approach to revealing neglected conditions in software



Ray-Yaung Chang, Andy Podgurski, Jiong Yang

July 2007 **Proceedings of the 2007 international symposium on Software testing and analysis ISSTA '07**

Publisher: ACM Press

Full text available: pdf(204.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Neglected conditions are an important but difficult-to-find class of software defects. This paper presents a novel approach to revealing neglected conditions that integrates static program analysis and advanced data mining techniques to discover implicit conditional rules in a code base and to discover rule violations that indicate neglected conditions. The approach requires the user to indicate minimal constraints on the context of the rules to be sought, rather than specific rule templates. ...

Keywords: automatic defect detection, frequent itemset mining, frequent subgraph mining, mining software repositories, program dependences

37 IRIS hypermedia services



Bernard J. Haan, Paul Kahn, Victor A. Riley, James H. Coombs, Norman K. Meyrowitz
January 1992 **Communications of the ACM**, Volume 35 Issue 1

Publisher: ACM Press

Full text available: pdf(5.68 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: IRIS hypermedia services, hypermedia, hypertext, intermedia

38 A dimension space for the design of interactive systems within their physical environments

T. C. Nicholas Graham, Leon A. Watts, Gaëlle Calvary, Joëlle Coutaz, Emmanuel Dubois, Laurence Nigay
August 2000 **Proceedings of the 3rd conference on Designing interactive systems: processes, practices, methods, and techniques DIS '00**

Publisher: ACM

Full text available: pdf(342.47 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper introduces a Dimension Space describing the entities making up richly interactive systems. The Dimension Space is intended to help designers understand both the physical and virtual entities from which their systems are built, and the tradeoffs involved in both the design of the entities themselves and of the combination of these entities in a physical space. Entities are described from the point of view of a person carrying out a task at a particular time, in terms of their atte ...

Keywords: augmented reality, dimension space, groupware, interactive system design

39 Personal information management: Data unification in personal information management



David R. Karger, William Jones
January 2006 **Communications of the ACM**, Volume 49 Issue 1

Publisher: ACM Press

Full text available: pdf(381.27 KB) .html
(28.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Users need ways to unify, simplify, and consolidate information too often fragmented by location, device, and software application.

40 User interface support for the integration of software tools: an iconic model of interaction



Michel Beaudouin-Lafon
November 1988 **ACM SIGSOFT Software Engineering Notes , ACM SIGPLAN Notices , Proceedings of the third ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments SDE 3**, Volume 13 , 24 Issue 5 , 2

Publisher: ACM Press

Full text available: pdf(1.17 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents a model of interaction based on an iconic representation of objects. An application of the model to an iconic shell for Unix™ is described. Finally a client server architecture for the implementation of the model is introduced. We show that a software development environment can take advantage of such a model and architecture in order to provide a consistent, adaptable and extensible user interface.

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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Navigation & interaction: Copy-and-paste between overlapping windows](#)

Olivier Chapuis, Nicolas Roussel

April 2007

Proceedings of the SIGCHI conference on Human factors in computing systems CHI '07

Publisher: ACM Press

Full text available: pdf(1.31 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Copy-and-paste, one of the fundamental operations of modern user interfaces, can be performed through various means (e.g. using the keyboard, mouse-based direct manipulation or menus). When users copy-and-paste between two different windows, the process is complicated by window management tasks. In this paper, we propose two new window management techniques to facilitate these tasks in the particular case of partially overlapping windows. We describe an experiment comparing four commonly-used ...

Keywords: copy-and-paste, overlapping windows, window management**2** [Macintosh human interface guidelines](#)

Apple Computer, Inc.

January 1992 Book

Publisher: Addison-Wesley Publishing Company

Full text available: pdf(37.61 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Macintosh Human Interface Guidelines describes the way to create products that optimize the interaction between people and Macintosh computers. It explains the whys and hows of the Macintosh interface in general terms and specific details.

Macintosh Human Interface Guidelines helps you link the philosophy behind the Macintosh interface to the actual implementation of interface elements. Examples from a wide range of Macintosh products show good human interface design, including individ ...

3 [xfrm 1.3](#)

Robert Dalrymple

July 1995

Linux Journal

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(11.54 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

A File and Applications Manager: A non-file manager user discovers the usefulness and flexibility of xfrm.

4 [Tools: Metisse is not a 3D desktop!](#)

Olivier Chapuis, Nicolas Roussel

October 2005

Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05

Publisher: ACM Press

Full text available: pdf(4.24 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Twenty years after the general adoption of overlapping windows and the desktop metaphor, modern window systems differ mainly in minor details such as window decorations or mouse and keyboard bindings. While a number of innovative window management techniques have been proposed, few of them have been evaluated and fewer have made their way into real systems. We believe that one reason for this is that most of the proposed techniques have been designed using a low fidelity approach and were never ...

Keywords: window management, window system

5 Tasks: Understanding and developing models for detecting and differentiating breakpoints during interactive tasks



Shamsi T. Iqbal, Brian P. Bailey

April 2007

Proceedings of the SIGCHI conference on Human factors in computing systems CHI '07

Publisher: ACM Press

Full text available: pdf(538.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The ability to detect and differentiate breakpoints during task execution is critical for enabling defer-to-breakpoint policies within interruption management. In this work, we examine the feasibility of building statistical models that can detect and differentiate three granularities (types) of perceptually meaningful breakpoints during task execution, without having to recognize the underlying tasks. We collected ecological samples of task execution data, and asked observers to review the i ...

Keywords: attention, breakpoints, interruption, statistical models

6 Trip report: hypertext '89



Jakob Nielsen

April 1990

ACM SIGCHI Bulletin, Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(1.28 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

At the first hypertext conference, *Hypertext'87*, there was some talk that we would soon stop having special hypertext conferences, just as we do not have special conferences about, say word processors. Future conferences would be focused on various application domains and might every now and then include papers on the use of a hypertext system. On the other hand there are still conferences about e.g. databases even though they have been one of the most commercially successful and w ...

7 Papers: Glass box: capturing, archiving, and retrieving workstation activities



Paula Cowley, Jereme Haack, Rik Littlefield, Ernest Hampson

October 2006

Proceedings of the 3rd ACM workshop on Continuous archival and retrieval of personal experiences CARPE '06

Publisher: ACM Press

Full text available: pdf(1.90 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Glass Box is a computer-based environment that unobtrusively captures workstation activity data from analysts engaged in real intelligence analysis activities, with the aim of supporting research leading to the development of more effective tools for the intelligence community. The Glass Box provides automated data capture, analyst annotations, data review/retrieval functions, and an application programming interface enabling applications to integrate, communicate, retrieve, store, and share ...

Keywords: API, activity monitoring, archiving, capture, evaluation, instrumentation, integration, retrieval, workstation activity

8 A presentation manager based on application semantics



S. McKay, W. York, M. McMahon

November 1989

Proceedings of the 2nd annual ACM SIGGRAPH symposium on User interface software and technology UIST '89

Publisher: ACM Press

Full text available: pdf(1.16 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a system for associating the user interface entities of an application with their underlying semantic objects. The associations are classified by arranging the user interface entities in a type lattice in an object-oriented fashion. The interactive behavior of the application is described by defining application operations in terms of methods on the types in the type lattice. This scheme replaces the usual "active region" interaction model, and allows application int ...

9 New Products

August 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: .html(9.87 KB)

Additional Information: [full citation](#), [index terms](#)

10 Navigation: PageLinker: integrating contextual bookmarks within a browser

Aurélien Tabard, Wendy Mackay, Nicolas Roussel, Catherine Letondal

April 2007

Proceedings of the SIGCHI conference on Human factors in computing systems CHI '07

Publisher: ACM Press

Full text available: [pdf\(713.78 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

PageLinker is a browser extension that allows to contextualise navigation by linking web pages together and to navigate through a network of related web pages without prior planning. The design is based on extensive interviews with biologists, which highlighted their difficulties finding previously visited web pages. They found current browser tools inadequate, resulting in poorly organised bookmarks and rarely used history lists. In a four-week controlled field experiment, PageLinker signifi ...

Keywords: PageLinker, WWW, biologists, bookmarks, browsers, contextual bookmarks, participatory design, web navigation

11 Tasks: Disruption and recovery of computing tasks: field study, analysis, and directions



Shamsi T. Iqbal, Eric Horvitz

April 2007

Proceedings of the SIGCHI conference on Human factors in computing systems CHI '07

Publisher: ACM Press

Full text available: [pdf\(632.55 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We report on a field study of the multitasking behavior of computer users focused on the suspension and resumption of tasks. Data was collected with a tool that logged users' interactions with software applications and their associated windows, as well as incoming instant messaging and email alerts. We describe methods, summarize results, and discuss design guidelines suggested by the findings.

Keywords: attention, interruption, notifications, task switching

12 Course 13: A gentle introduction to bilateral filtering and its applications: A gentle introduction to bilateral filtering and its applications



Sylvain Paris

August 2007

ACM SIGGRAPH 2007 courses SIGGRAPH '07

Publisher: ACM Press

Full text available: [pdf\(27.35 MB\)](#) [mov](#)
(100:20 MIN)Additional Information: [full citation](#), [abstract](#)

- Image-based modeling and photo editing *Oh et al.* ACM SIGGRAPH conference (c) 2001, Association for Computing Machinery, Inc. Reprinted by permission. <http://doi.acm.org/10.1145/383259.383310>

- Fast bilateral filtering for the display of high-dynamic-range images *Durand and Dorsey* ACM SIGGRAPH conference (c) 2002, Association for Computing Machinery, Inc. Reprinted by permission. <http://doi.acm.org/10.1145/566570.566574>

- Bilateral mesh denoising *Fleishman et a ...*

13 Intentional software



Charles Simonyi, Magnus Christerson, Shane Clifford

October 2006

ACM SIGPLAN Notices , Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '06,
Volume 41 Issue 10

Publisher: ACM Press

Full text available: [pdf\(362.40 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wysiwyg editors simplified document creation by separating the document contents from the looks and by automating the re-application of the looks to changing contents. In the same way Intentional Software simplifies software creation by separating the software contents in terms of their various domains from the implementation of the software and by enabling automatic re-generation of the software as the contents change. This way, domain experts can work in parallel with programmers in their resp ...

Keywords: generative programming, intentional software

14 Converting an existing user interface to use constraints



Bjorn N. Freeman-Benson

December 1993

Proceedings of the 6th annual ACM symposium on User interface software and technology UIST '93

Publisher: ACM Press

Full text available: [pdf\(985.61 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: CoolDraw, HotDraw, constraints, conversion, direct manipulation, user interface toolkits

15 Tags, tagging & notetaking: Selection-based note-taking applications



Aaron Bauer, Kenneth R. Koedinger

April 2007

Proceedings of the SIGCHI conference on Human factors in computing systems CHI '07

Publisher: ACM Press

Full text available: pdf(402.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The increasing integration of education and technology has led to the development of a range of note-taking applications. Our project's goal is to provide empirical data to guide the design of such note-taking applications by evaluating the behavioral and learning outcomes of different note-taking functionality. The study reported here compares note-taking using a text editor and four interaction techniques. The two standard techniques are typing and copy-paste. The two novel techniques are r ...

Keywords: annotation, copy-paste, education, note-taking

16 Tracking Code Clones in Evolving Software

Ekwa Duala-Ekoko, Martin P. Robillard

May 2007

Proceedings of the 29th International Conference on Software Engineering ICSE '07

Publisher: IEEE Computer Society

Full text available: pdf(275.94 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Code clones are generally considered harmful in software development, and the predominant approach is to try to eliminate them through refactoring. However, recent research has provided evidence that it may not always be practical, feasible, or cost-effective to eliminate certain clone groups. We propose a technique for tracking clones in evolving software. Our technique relies on the concept of abstract clone region descriptors (CRD), which describe clone regions within methods in a robust way ...

17 The O2 system



O. Deux

October 1991

Communications of the ACM, Volume 34 Issue 10

Publisher: ACM Press

Full text available: pdf(7.18 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: O2, Object-oriented database systems

18 Building dynamic graphical interfaces with Escalante



Jeffrey D. McWhirter

May 1995

Conference companion on Human factors in computing systems CHI '95

Publisher: ACM Press

Full text available: pdf(270.15 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: graph editors, user interface development environments, visual languages

19 Adaptation & examples: Programming by a sample: rapidly creating web applications with d.mix

Björn Hartmann, Leslie Wu, Kevin Collins, Scott R. Klemmer

October 2007

Proceedings of the 20th annual ACM symposium on User interface software and technology UIST '07

Publisher: ACM

Full text available: pdf(3.87 MB) wmv(3:43)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

(MIN)

Source-code examples of APIs enable developers to quickly gain a gestalt understanding of a library's functionality, and they support organically creating applications by incrementally modifying a functional starting point. As an increasing number of web sites provide APIs, significant latent value lies in connecting the complementary representations between site and service - in essence, enabling sites themselves to be the example corpus. We introduce d.mix, a tool for creating web mashups th ...

Keywords: mashups, programming by example modification, prototyping, web services

20 Work-in-progress: Evaluating the effect of technology on note-taking and learning

Aaron Bauer, Kenneth Koedinger

April 2006

CHI '06 extended abstracts on Human factors in computing systems CHI '06

Publisher: ACM Press

Full text available: pdf(443.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current note-taking applications have been shown to affect the way students take notes. The impact on learning has not been studied. In this paper, we describe a project aimed at addressing how specific features of note-taking tools impact both behavior and performance. We describe our initial results evaluating copy-paste functionality, their implication for design, and future studies. We believe this work has relevance not only for the design of note-taking tools, but for a broader CHI audienc ...

Keywords: annotation, education, note-taking

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